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Noboru Miyamoto, et al., "Large Scale, High Quality, Highly Reliable Global IP Network", Hitachi Critique, Vol. 81, N September 1, 1999, pp. 25-28.			Noboru Mivamoto, et a	al., "Large Scale,	High Qua	ality, Highly Reliable Global	i IP Netwo	rk". Hitachi Cri	tique, Vol. a	il. No. y.
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/E.C./	Ken Kawasaki, et al., "Examination of Firewall Function in a Network VPN", Communications information SSE99-185,										
 		Yoshin Katoh, "The Internet: Challenging Heaven and Earth", Nikkei Communications, No. 353, November 5, 2001.									
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/E.C./ Japanese Office Action dated April 21, 2004 with Partial English Translation.											
Yoshinobu Kato, "Device VLAN Flexibility and Network Reliability", Nikkei Communications, No. 377, November 4, 2002 pp. 88-97.								4, 2002,			
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